IN THE CLAIMS:

1. (Currently Amended) A radiator Radiator for heating the passenger compartment of a

vehicle comprising at least a first fluid box (1) extending from a first front surface (F1) to a

second front surface (F2) of the radiator along a longitudinal axis (A1) contained in a median

plane (P) of the radiator, a heat exchanger bundle (3) extending approximately along said

median plane (P) starting from the fluid box to exchange heat between a coolant circulating

in the fluid box and an airflow passing through the bundle, and a fluid inlet or outlet tubing

(5) projecting from the end of the fluid box located in said first front surface (F1),

characterised in that, wherein, starting from the first front surface (F1), said tubing (5) has a

first part (5-1) inclined with respect to said longitudinal axis (A1) and/or eccentric with

respect to said median plane (P), the fluid box (1) and at least a segment of said tubing (5) are

obtained by assembling two parts (11, 12) out of folded or stamped sheet aluminum, each of

said two parts (11, 12) defining approximately half of the fluid box (1) and half of the

segment.

2. (Currently Amended) A radiator Radiator according to claim 1, in which said first

part (5-1) of the tubing is offset towards a first side of said median plane (P) so as to leave a

planar surface (10) on the other side of this median plane in the first front surface (F1) to

achieve airtight contact between the radiator and the heating unit box containing the radiator.

3. (Currently Amended) A radiator Radiator according to any one of claims 1 and 2, in

which said first part (5-1) of the tubing (5) is inclined with respect to said median plane.

4. (Currently Amended) A radiator Radiator according to claim 2, in which said first

part of the tubing is inclined towards said first side of said median plane (P).

5. (Cancelled)

6. (Currently Amended) A radiator Radiator according to claim 1 any one of the

previous claims, in which said first part (5-1) of the tubing (5) is connected by an elbow (5-3)

to a second part (5-2) located on the same side as the fluid box (1) with respect to a boundary

plane (P3) perpendicular to said longitudinal axis and tangential to said elbow (5-3).

7. (Currently Amended) A radiator Radiator according to claim 6, in which said second

part (5-2) extends approximately perpendicular to said longitudinal axis (A1) and is also

tangential to said boundary plane (P3).

8. (Currently Amended) A radiator Radiator according to claim 6, in which said second

part (5-2) separates from said boundary plane (P3) starting from said elbow.

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9. (Currently Amended) A radiator Radiator according to any one of claims 6 to 8, in

which the following relations are respected:

 $\cos \beta x \sin \alpha \leq (X \max/L)$

 $\cos \beta x \cos \alpha \le (Y \max/L)$

 $0 \le \alpha \le 2\pi$

 $-\pi/2 \le \beta \le \pi/2$

where L is the length of the vector connecting the intersection points (O, A) of the

median axis (A3) of the first part (5-1) of the tubing (5) with the first front surface (F1) and

with the median axis (A4) of the second part (5-2), α is the angle formed by said vector with

said median plane (P), β is the angle formed by said vector with the plane (P1) containing the

longitudinal axis (A1) of the fluid box (1) and is orthogonal to said median plane (P), Ymax

is the maximum available distance in the vehicle to house the tubing starting from the first

front surface (F1) in the direction of the longitudinal axis (A1) of the fluid box (1), and Xmax

is the maximum available distance in the vehicle to house the tubing starting from the origin

(O) of said vector in the direction perpendicular to said median plane (P), α and β are not

both zero.

10. (Currently Amended) A radiator Radiator according to claim 1 any one of the

previous claims, in which the segment of tubing (5) is adjacent the first box (1) and the fluid

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box (1) and at least one the segment of the tubing (5) adjacent to the fluid box are formed by

the inseparable assembly of the at least two parts (11, 12).

11. (Cancelled)

12. (Cancelled)

13. (Cancelled)

14. (Cancelled)

15. (Currently Amended) A radiator Radiator according to claim 1 any one of the

previous claims, in which a second fluid box (2) is provided extending along a longitudinal

axis (A2) contained in said median plane (P), the heat exchanger bundle (3) being inserted

between the two fluid boxes, one associated with a fluid inlet tubing (5) and the other with a

fluid outlet tubing (6), the tubing associated with the second fluid box (2) also being as

defined in one of the previous claims.

16. (Currently Amended) A radiator Radiator or air conditioning unit for the passenger

compartment of a vehicle comprising a radiator according to claim 1 one of the previous

claims, housed in a box (21, 22, 23, 24), said box being approximately in airtight contact

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with an area (10) of said first front surface (F1) that is clear due to the fact that the first part

(5-1) of the tubing (5) is inclined and/or eccentric.

17. (New) A radiator according to claim 15, in which the longitudinal axis (A2) is

contained in a plane (P2) orthogonal to the median plane (P).

18. (New) A radiator according to claim 15, in which the second fluid box (2) and at

least a segment of the fluid outlet tubing (6) are obtained by assembly two parts each

defining approximately half of the second fluid box (2) and half of the segment of the fluid

outlet tubing (6).

19. (New) A radiator according to claim 15, in which the tubing (6) has a first part (6-1)

inclined with respect to the longitudinal axis (A2) and/or eccentric with respect to the median

plane (P).

20. (New) A radiator according to claim 19, in which the first part (6-1) of the tubing (6)

is offset towards a first side of the median plane (P) so as to leave a planar surface (10) on the

other side of the median plane (P) in the first front surface (F1) to achieve airtight contact

between the radiator and the heating unit box containing the radiator.

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- 21. (New) A radiator according to claim 20, in which the first part (6-1) of the tubing (6) is inclined with respect to the median plane (P).
- 22. (New) A radiator according to claim 21, in which the first part (6-1) of the tubing (6) is inclined towards the first side of the median plane (P).